

FIG. 1

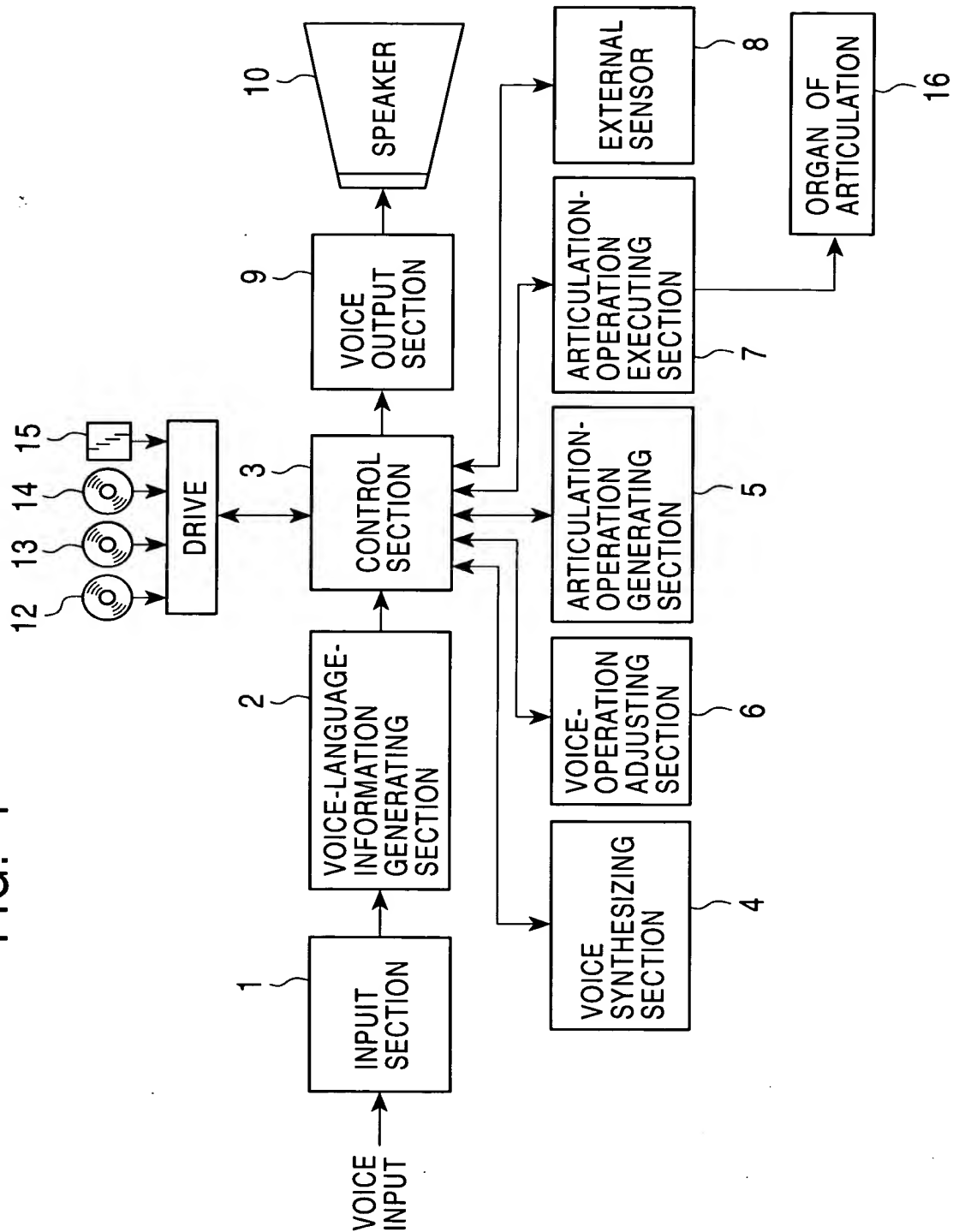


FIG. 2

| PHONEME INFORMATION | | | | | | | | | |
|--|-------|------|------|------|-------|------|------|-------|--|
| PHONEME CONTINUATION PERIOD (UNIT: msec) | | | | | | | | | |
| K | O | X | N | I | CH | I | W | A | |
| 87.0 | 126.0 | 79.0 | 40.0 | 91.0 | 114.0 | 42.0 | 32.0 | 190.0 | |

FIG. 3

| PHONEME INFORMATION | K | | O | | X | | N | | I | | CH | | I | | W | | A | |
|------------------------|-------|----|-------|----|--------|----|-------|----|-------|----|-------|----|--------|----|-------|----|--------|----|
| | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T |
| JAWS (UP/DOWN) | DOWN | 20 | — | 40 | UP | 80 | — | 20 | — | 40 | DOWN | 30 | UP | 40 | DOWN | 50 | UP | 50 |
| LIPS (UP/DOWN) | DOWN | 30 | DOWN | 30 | UP | 60 | — | 0 | DOWN | 30 | — | 0 | UP | 50 | DOWN | 40 | — | 0 |
| (TIGHT/ CLOSED) | LOOSE | 40 | — | 0 | TIGHT | 50 | TIGHT | 20 | TIGHT | 40 | TIGHT | 20 | LOOSE | 40 | LOOSE | 40 | LOOSE | 50 |
| (OPEN/ CLOSED) | OPEN | 30 | — | 0 | CLOSED | 70 | OPEN | 10 | — | 30 | — | 40 | CLOSED | 50 | OPEN | 50 | — | 0 |
| THROAT (AMPLITUDE) | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 |
| (UP/DOWN) | UP | 40 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | DOWN | 40 |
| TONGUE (UP/DOWN) | DOWN | 30 | UP | 30 | — | 0 | — | 0 | — | 0 | — | 0 | DOWN | 30 | — | 0 | — | 0 |
| (RIGHT/ LEFT) | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 |
| (FRONT/ BACK) | BACK | 30 | FRONT | 40 | — | 0 | — | 0 | — | 0 | — | 0 | BACK | 50 | — | 0 | FRONT | 60 |
| NOSE (OPEN/ CLOSED) | OPEN | 20 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | — | 0 | CLOSED | 50 |

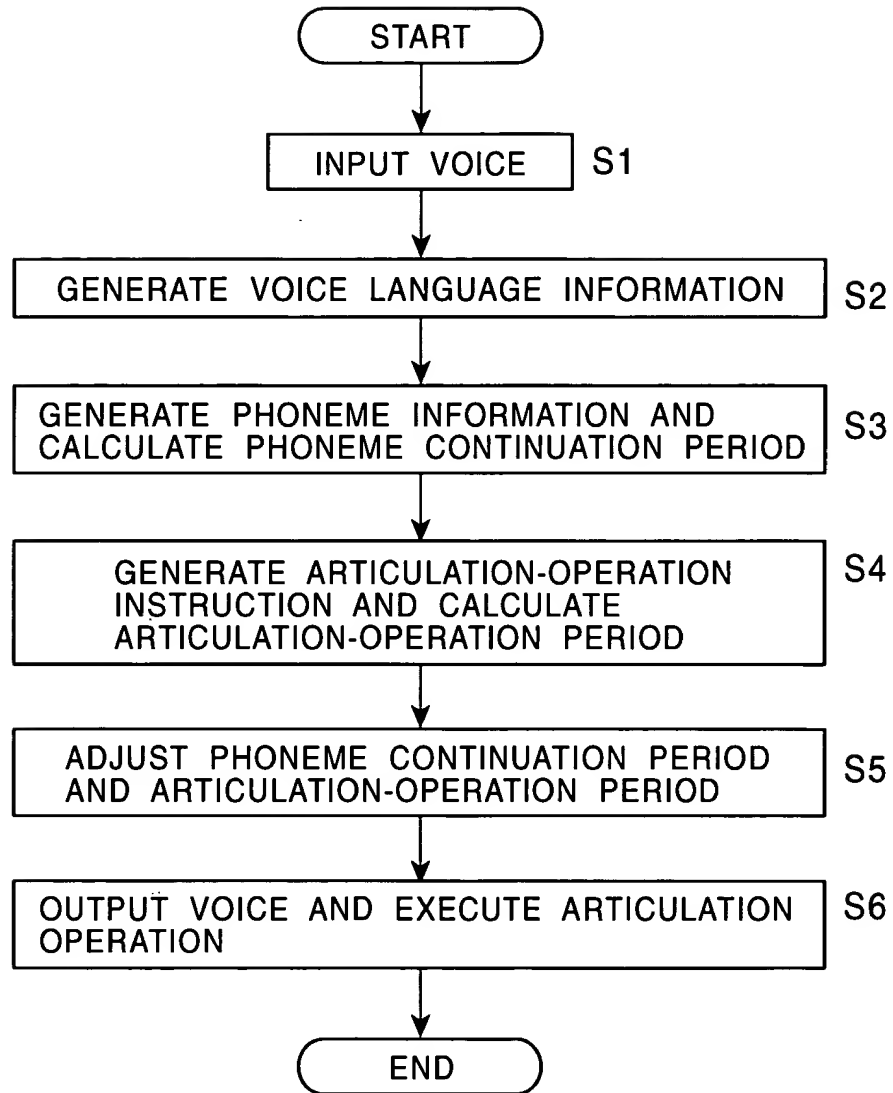
A: OPERATION INSTRUCTION T: OPERATION PERIOD (msec)

FIG. 4

| PHONEME INFORMATION | | | | | | | | |
|---------------------|-------|-------------|------|------|-------|-------------|-------------|-------|
| K | O | X | N | I | CH | I | W | A |
| 87.0 | 126.0 | <u>80.0</u> | 40.0 | 91.0 | 114.0 | <u>50.0</u> | <u>40.0</u> | 190.0 |

| PHONEME CONTINUATION PERIOD (UNIT : msec) | | | | | | | | |
|---|-------|-------------|------|------|-------|-------------|-------------|-------|
| 87.0 | 126.0 | <u>80.0</u> | 40.0 | 91.0 | 114.0 | <u>50.0</u> | <u>40.0</u> | 190.0 |

FIG. 5



09749244-122700

FIG. 6A

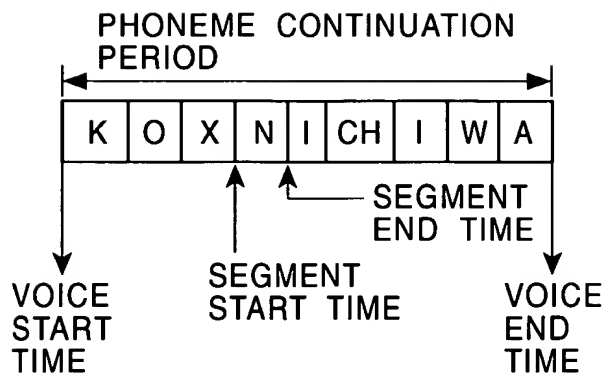
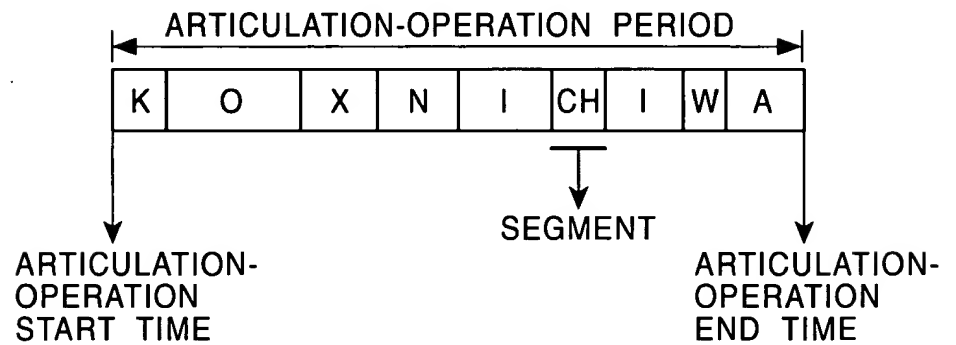


FIG. 6B



09749214-122700

FIG. 7

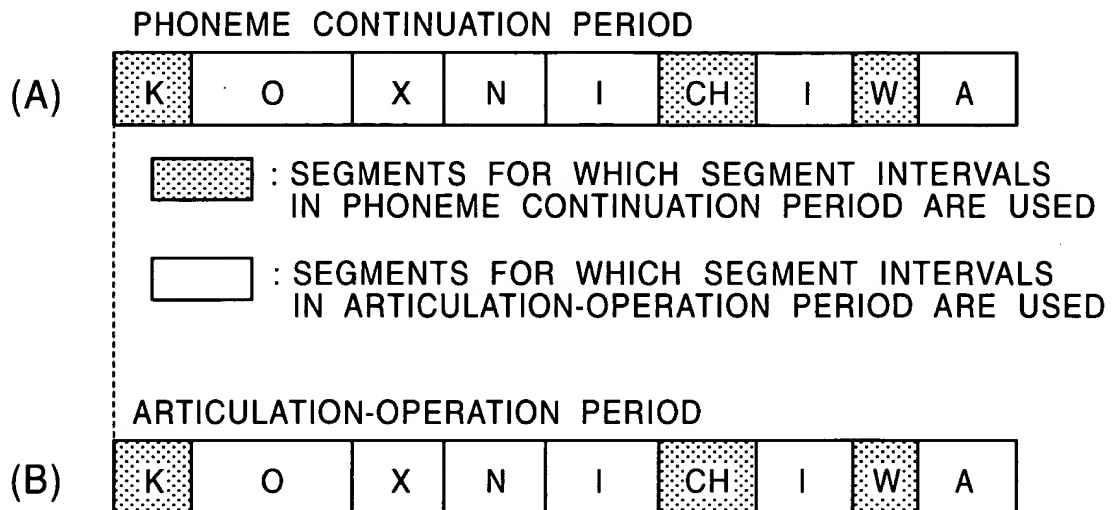


FIG. 8

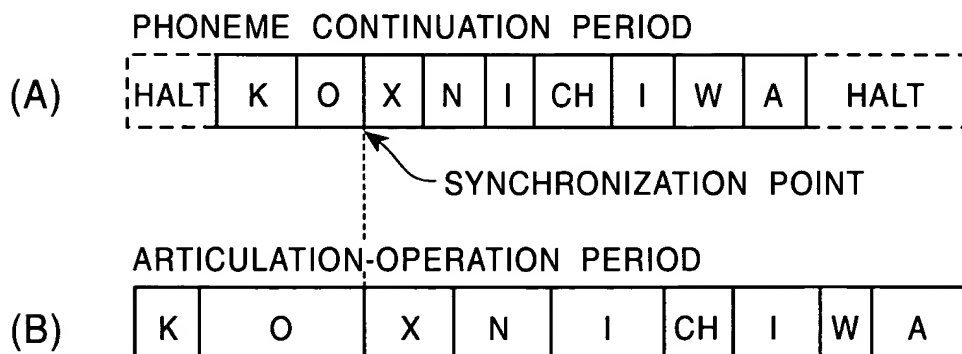


FIG. 9A

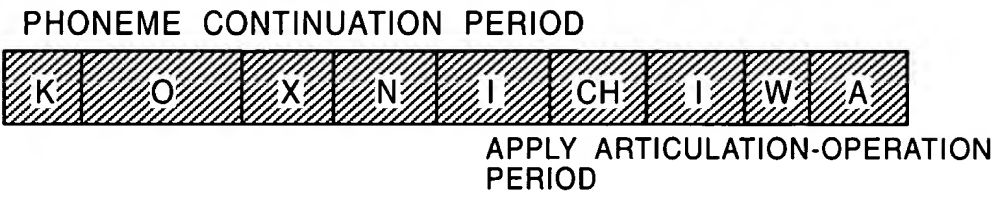


FIG. 9B

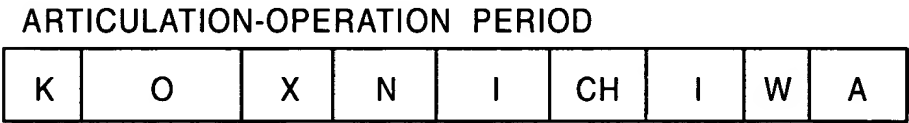


FIG. 10

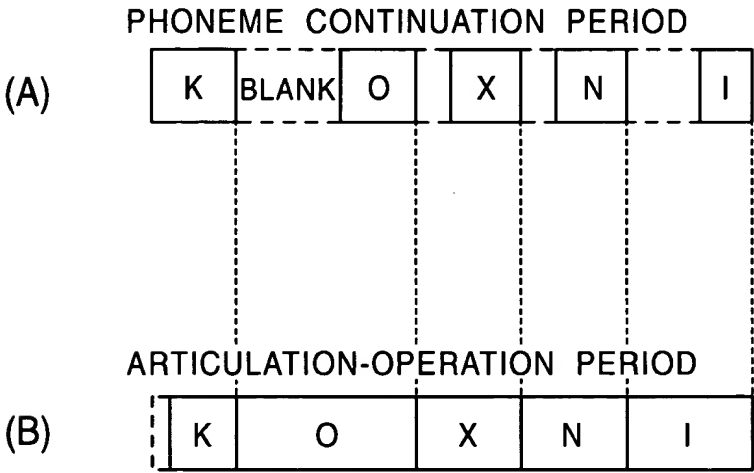
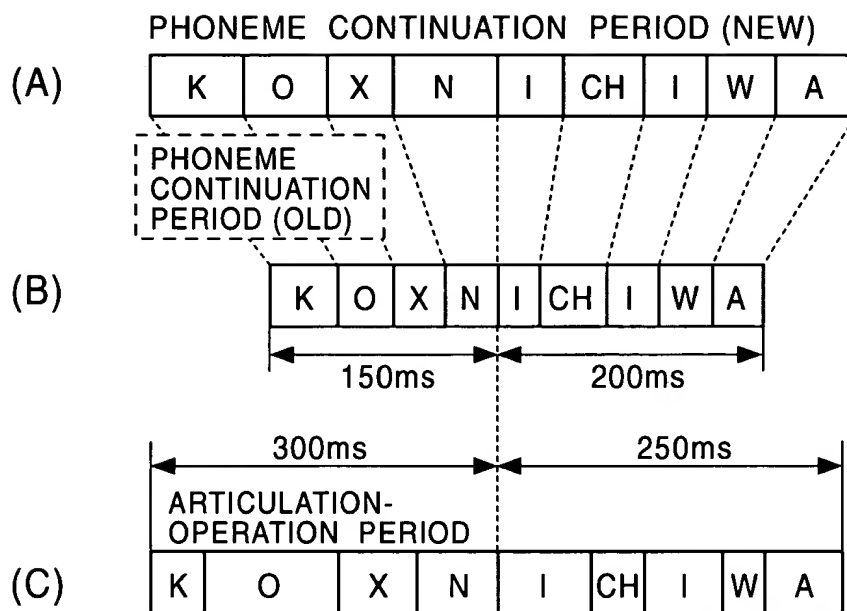


FIG. 11



00749244.122700

FIG. 12A

| PHONEME INFORMATION | K | | O | X | N | I | CH | I | W | A |
|---------------------|----|---|---|---|---|---|----|---|----|---|
| | A | T | A | T | A | T | A | T | A | T |
| NECK (FRONT/BACK) | 80 | | - | 0 | - | 0 | - | 0 | 40 | - |

FRONT

BACK

FIG. 12B

| PHONEME INFORMATION | K | | O | X | N | I | CH | I | W | A |
|-------------------------|----|---|---|---|---|---|----|---|---|---|
| | A | T | A | T | A | T | A | T | A | T |
| RIGHT HAND (FRONT/BACK) | 80 | | - | 0 | - | 0 | - | 0 | - | - |

FRONT